

# Bridge Construction Project (New) For Structures SR-6; Tucker Rest Area to Soldier Summit



Project Manager: Daryl Friant Project Number: NH-0006(29)204

PIN number: 4161 FiNet number: 5106601D

#### **UDOT**

Structures Division
Region: 4 Price
Prepared by:
Tyson Schultz
Review by Structures Team:

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#### REPORT SUMMARY

#### **Scope of Project:**

#### 1. Purpose of Report

This report presents a conceptual overview of a project to perform New Construction for a new bridge and a Box Culvert from Tucker to Soldier Creek. It is intended to convey the need, scope, schedule, budget, and quality control process for the project.

#### 2. Project Information

**Region:** 4P **Route No.:** US-6 **Date:** July 2007

**Project Name:** US-6, Tucker to Soldier Creek

**R.P.:** 204

Project Number: <u>NH-0006(29)204</u> PIN: <u>4161</u> FiNet: <u>5106601D</u>

**Project Design:** Bridge: UDOT Structures Division (Matt Rink);

Roadway: Region 4P Pre-Construction

**Project Mgr:** Daryl Friant

#### 4. Plan:

This project is intended to provide a new bridge and Box Culvert for the new alignment of US-6 from the Tucker Rest Stop to Soldier Summit. This will eliminate the box culvert that is currently there, and will also divert the flow of the river through the new box culvert and under the new bridge. The Box Culvert will be built in Clear Creek (which will run through the culvert). Then the bridge will be built over Soldier creek, which will also be used as wildlife crossing (underneath). Accelerated Bridge Construction methods will be evaluated for both structures.

#### 5. Work items to be completed:

The scope of this project is to put a new bridge (Wildlife Structure) and a new box culvert in to the two creeks for a new road. Then lay asphalt over the top of the Box Culvert, and the bridge will be sealed or a polymer overlay.

#### 6. Work items to be deferred:

Roadway and safety items beyond what is related to the bridge replacement will not be included.

#### 7. Design Exceptions:

No Design Exceptions are expected for Design work.

#### **8.** Maintenance Considerations:

After the bridge and culvert are completed, shed will start a routine maintenance, as recommended by structure division.

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No traffic control is expected. Construction is taking place in a non traffic zone.

**10. Risk Analysis:** (None anticipated at this time)

#### 11. Development Process:

New or Major Reconstruction	X
Rehabilitation	
Preservation	

### **Schedule of Project:**

Refer to the overall roadway construction schedule.

#### **Budget of Project:**

**1. Funding Source:** New Highway Federal funds

Amount Programmed: CAA; \$13,400,000.00
 Structures Cost Estimate: \$6,500,000.00

,					July 18, 2007
Quantity	Unit		Unit Cost		Total Cost
8346	SF	\$	300.00	\$	2,503,800.00
E2E	CV	Ф	900 00	¢	429 000 00
535	CY	Þ	800.00	Ф	428,000.00
400	CV	•	900.00	φ.	120,000,00
100	O1	φ	800.00	φ	128,000.00
				Inc	cluded in Roadway
				Included in Roadway	
				\$	3,059,800.00
1	LUMP	\$	500.000.00	\$	500,000.00
			,	\$	611,960.00
				\$	611,960.00
				\$	4,783,720.00
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				<b>5</b>	6,410,000.00
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# Assumptions: (Verify the bridge width & water way opening during the final design phase.) 1) Bridge Width = 3 X 12' Traffic Lanes + 2 X 10' Shoulders + 2 X 7' Medians + 2 X 2' Shy Distance + 2 X 1'-7" Parapets

2) Hydraulic Opening of Single Box Culverts is 24' x 14'

3) SCHERING GUIDANE PROBAILEMENT TUCKER TO Soldier Summit Concept Report Tucker to

4) All Troadway Safety Upgradies are Included in Roadway Costs.

## **LOCATION MAP**

